

Army Modeling and Simulation Past, Present and Future

Executive Forum
for

Modeling and Simulation

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May 30, 2001

Training Simulation: Past to Present

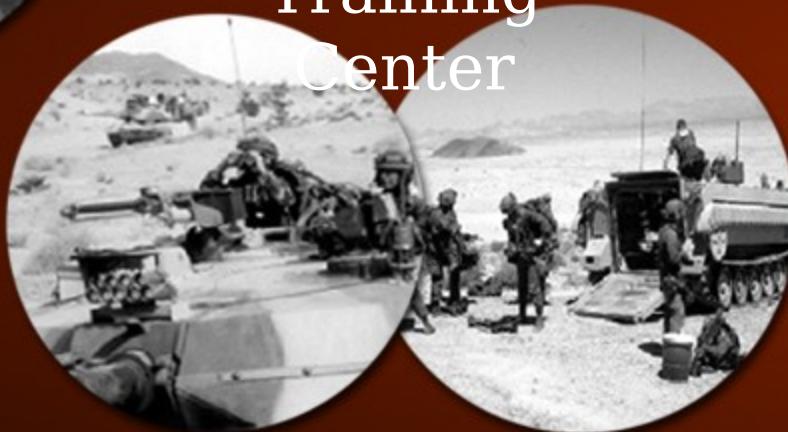
SCOPES/
REALTRAIN
1971



MILES
1976 to Present



National
Training
Center

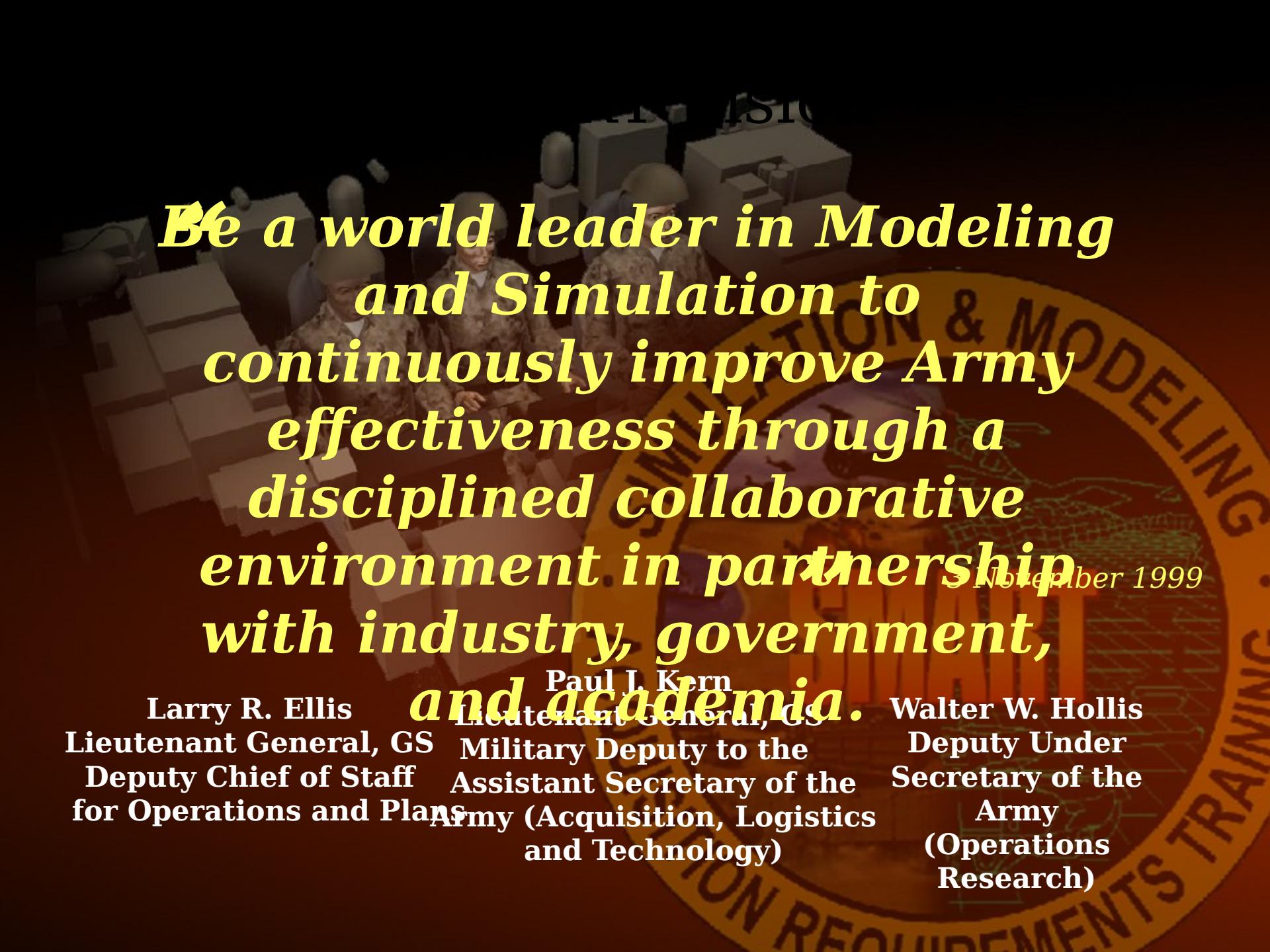


1982 to Present

SMART Definition



SMART is a process in which we capitalize on Modeling and Simulation (M&S) technology to address the issue of system development and life-cycle costs through the combined efforts of the requirements, training and acquisition communities.



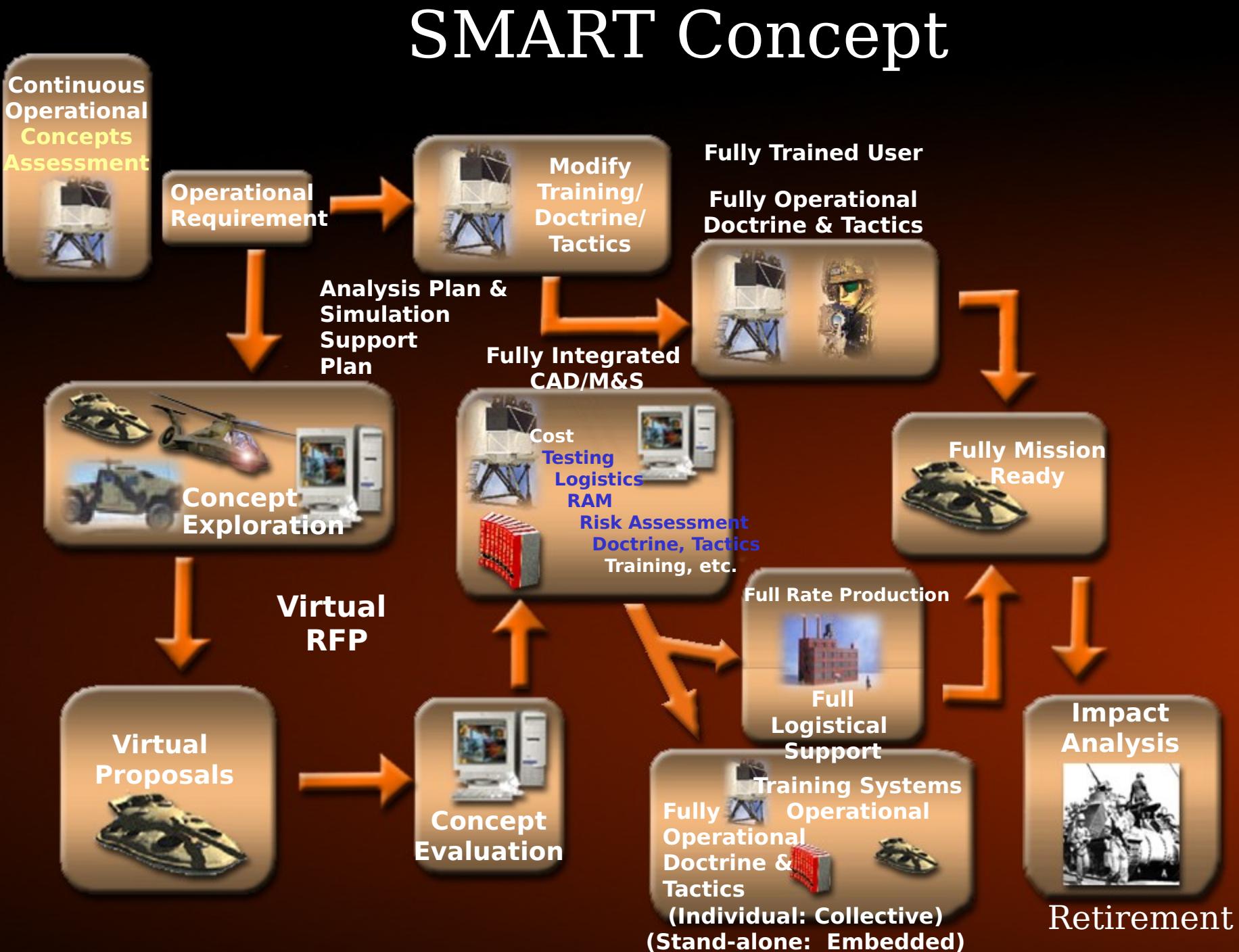
***Be a world leader in Modeling
and Simulation to
continuously improve Army
effectiveness through a
disciplined collaborative
environment in partnership
with industry, government,
and academia.***

Larry R. Ellis Paul J. Kern
Lieutenant General, GS Lieutenant General, GS
Deputy Chief of Staff Military Deputy to the
for Operations and Plans Assistant Secretary of the
Army (Acquisition, Logistics
and Technology)

November 1999

Walter W. Hollis
Deputy Under
Secretary of the
Army
(Operations
Research)

SMART Concept



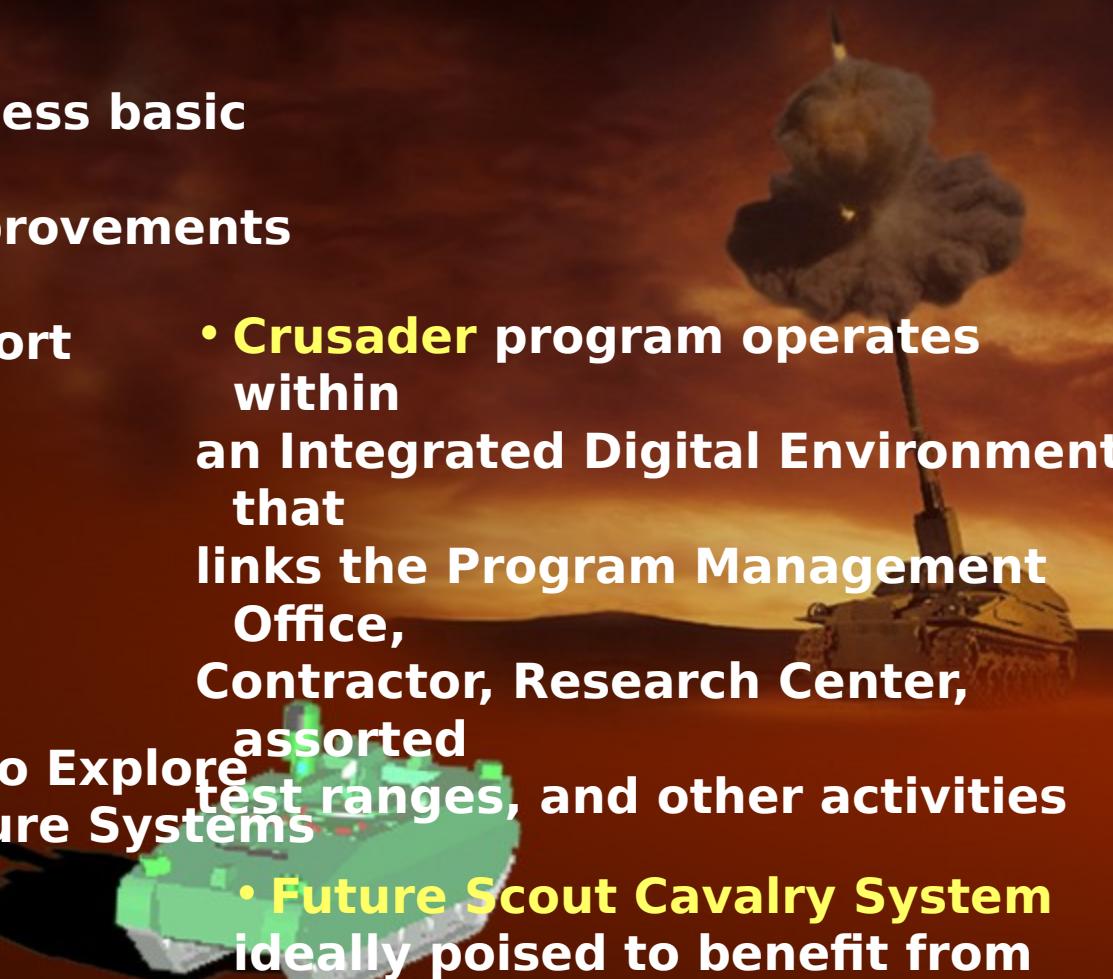
Flagship Programs



- **Apache** poised to re-assess basic load, capitalize on product improvements to re-engineer logistic support



- **CCTT** can be Employed to Explore Doctrine and TTP for Future Systems to Influence Final Design



- **Crusader** program operates within an Integrated Digital Environment that links the Program Management Office, Contractor, Research Center, assorted test ranges, and other activities
- **Future Scout Cavalry System** ideally poised to benefit from M&S and Systems Engineering

Modeling and Simulation Are Essential To Field the Objective Force In This Decade

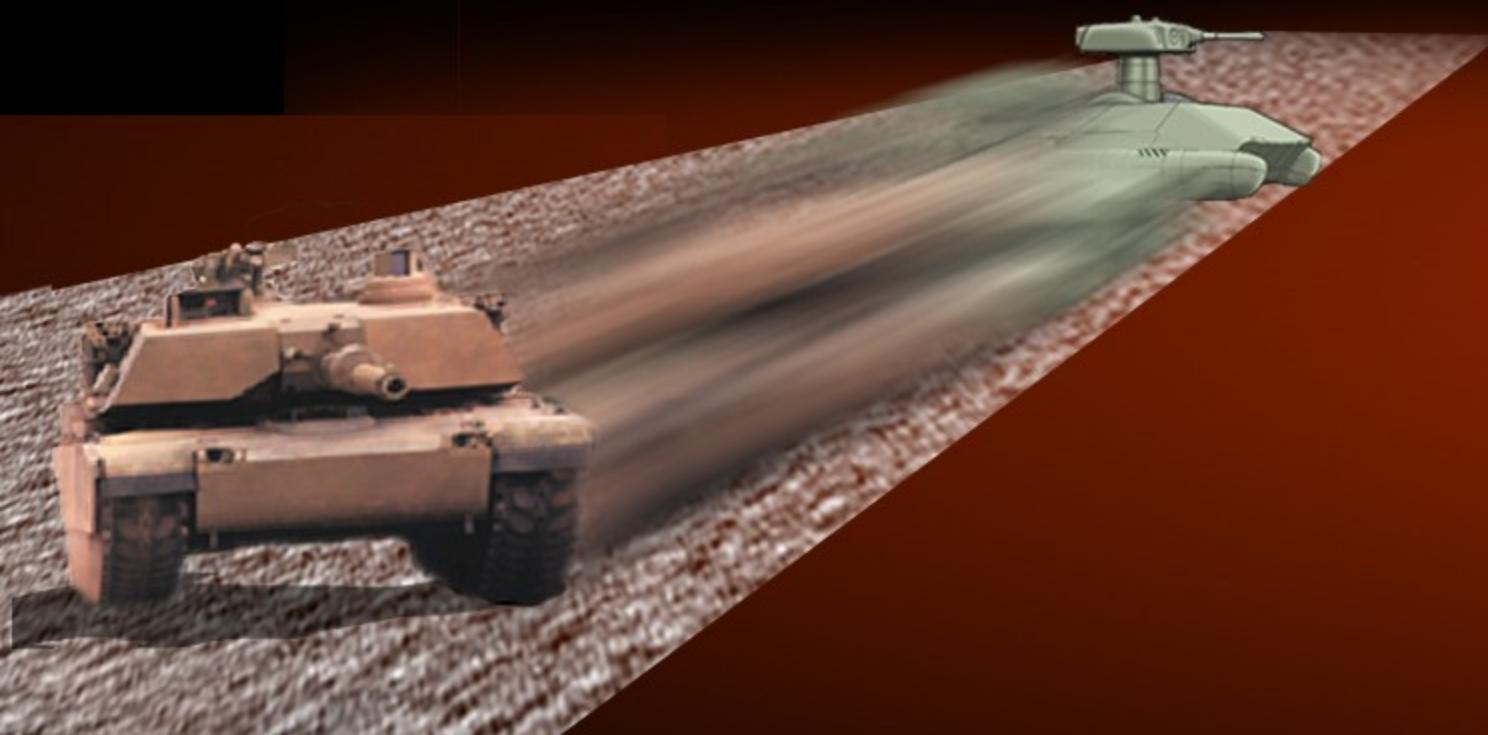
2008



- Design Faster
- Collaborate Easier
- Explore Alternative D

The Way Ahead

SMART is the enabler to allow the Army to complete the Transformation process within the established timelines. Coordination has been conducted to incorporate 45 of the 51 tasks in the SMART Executive Plan into the Transformation Campaign Plan.



AMC RDEC Federation



AMC-wide Distributed M&S Collaborative Environment

M&S Integration and Interoperation Across RDECs

Design



Evaluate

Collaborate

SimServer
ISTI

SimClient
Anywhere

*RDEC M&S
Commodities
distributed over
multiple,
heterogeneous
platforms*



SimClient
SMART

MP-ERM
TACOM/ARDEC

NGPM
CECOM/RDEC
NVTherm
CECOM/NVESD

SMART Collaboration With Entertainment Industry/Academia

- **Immersive Environments**
- **Urban Environment Simulation**
- **Stability and Support Operations Simulation**



Training Simulations: The Future

- System Embedded Training



- Use of Hollywood Concepts to Create Immersive Training Environments



*Facing the
Future...*

Together